

## **NRR-PMDAPEm Resource**

---

**From:** Saba, Farideh  
**Sent:** Monday, October 17, 2011 9:48 AM  
**To:** Yeager, Mark  
**Subject:** RE: FW: Urgent: Request State Comment Regarding a Requested Exemption to Use M5 Alloy in Fuel Rod Cladding (TAC NO. ME4912)

It is not signed yet, because I need your comments to sign. I will email you the EA that is prepared assuming no comments from the state.

Thanks for your attention.

Farideh E. Saba, P.E.  
Senior Project Manager  
NRC/ADRO/NRR/DORL  
301-415-1447  
Mail Stop O-8G9A  
[Farideh.Saba@NRC.GOV](mailto:Farideh.Saba@NRC.GOV)

---

**From:** Yeager, Mark [<mailto:yeagerma@dhec.sc.gov>]  
**Sent:** Monday, October 17, 2011 9:45 AM  
**To:** Saba, Farideh  
**Cc:** Susan Jenkins  
**Subject:** Re: FW: Urgent: Request State Comment Regarding a Requested Exemption to Use M5 Alloy in Fuel Rod Cladding (TAC NO. ME4912)

Ms. Saba, I received your E-mail. In order for me to provide comments, I need the EA today. When will it be available? Thanks, Mark

On Mon, Oct 17, 2011 at 9:28 AM, Saba, Farideh <[Farideh.Saba@nrc.gov](mailto:Farideh.Saba@nrc.gov)> wrote:

Farideh E. Saba, P.E.  
Senior Project Manager  
NRC/ADRO/NRR/DORL  
301-415-1447  
Mail Stop O-8G9A  
[Farideh.Saba@NRC.GOV](mailto:Farideh.Saba@NRC.GOV)

---

**From:** Saba, Farideh  
**Sent:** Monday, October 17, 2011 9:24 AM  
**To:** 'Susan Jenkins'; Mark Yaeger  
**Cc:** Mozafari, Brenda  
**Subject:** Urgent: Request State Comment Regarding a Requested Exemption to Use M5 Alloy in Fuel Rod Cladding (TAC NO. ME4912)  
**Importance:** High

Dear Ms. Jenkins,

By letter dated October 19, 2010 (Agencywide Document Access and Management System Accession Number ML 102980142), Carolina Power & Light Company (CP&L, the licensee) requested an exemption to allow the licensee use of M5 cladding fuel assemblies into the core of H. B. Robinson Steam Electric Plant (HBRSEP), Unit 2. The proposed action would exempt the licensee from certain requirements of Title 10 of the Code of Federal Regulations (10 CFR), Part 50, Section 50.46, "Acceptance criteria for emergency core cooling systems for light-water nuclear power reactors," and Appendix K to 10 CFR 50, "ECCS [Emergency Core Cooling System] Evaluation Models," to allow for the use of M5 alloy fuel rod cladding." Specifically, 10 CFR 50.46, paragraph (a)(1)(i) provides requirements for reactors containing uranium oxide fuel pellets clad in either zircaloy or ZIRLO. Additionally, Appendix K to 10 CFR 50 presumes the use of zircaloy or ZIRLO fuel cladding when doing calculations for energy release, cladding oxidation, and hydrogen generation after a postulated loss-of-coolant accident. Therefore, both of these regulations either state or assume that either zircaloy or ZIRLO is used as the fuel rod cladding material.

We are currently processing an Environmental Assessment (EA) for this exemption request and publishing the EA in the Federal Register. I appreciate it you would let me know by today, if you have any comments, on behalf of State of South Carolina, Department of Health and Environmental Control, regarding the environmental impact of the proposed action.

Best regards,

Farideh E. Saba, P.E.

Senior Project Manager

NRC/ADRO/NRR/DORL

301-415-1447

Mail Stop O-8G9A

[Farideh.Saba@NRC.GOV](mailto:Farideh.Saba@NRC.GOV)

**Hearing Identifier:** NRR\_PMDA  
**Email Number:** 178

**Mail Envelope Properties** (Farideh.Saba@nrc.gov20111017094700)

**Subject:** RE: FW: Urgent: Request State Comment Regarding a Requested Exemption to Use M5 Alloy in Fuel Rod Cladding (TAC NO. ME4912)  
**Sent Date:** 10/17/2011 9:47:59 AM  
**Received Date:** 10/17/2011 9:47:00 AM  
**From:** Saba, Farideh

**Created By:** Farideh.Saba@nrc.gov

**Recipients:**  
"Yeager, Mark" <yeagerma@dhec.sc.gov>  
Tracking Status: None

**Post Office:**

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	3161	10/17/2011 9:47:00 AM

**Options**  
**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**